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NAVSTA NEWPORT RI
5090 3a

TRC Environmental Consultants, Inc.

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Ms. Cynthia Signore
Rhode Island Department of
Environmental Management
291 Promenade Street
Providence, Rhode Island 02908

June 24, 1992

**RE: Laboratory Results for Ground Water Sampling
Tank Farm Five - Tanks 53 and 56 Closure
Naval Education and Training Center, Newport, RI
TRC Project No. 6760-N81**

Dear Ms. Signore:

As requested by the US Navy Northern Division, TRC Environmental Consultants Inc. (TRC) is providing your office with copies of the laboratory data packages for ground water samples collected under the subject tank closure investigation. The ground water samples were collected on May 5 - 6, 1992 and submitted to Weston Analytics in Lionville, Pennsylvania for analysis.

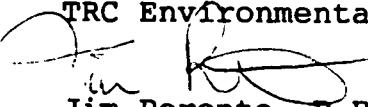
The enclosed data package is supplied for your information and review. The ground water data packages are currently being validated by a third party according to US EPA Region I functional guidelines for data validation. The data validation reports will be sent to your office upon receipt by TRC. All of the data validation is scheduled for completion by the end of July. After receiving and reviewing all of the validated data, a report which presents the scope and findings of the ground water sampling will also be forwarded to your office through the US Navy Northern Division.

Draft copies of the data summary tables or "hits" tables for this round of ground water samples are attached for your use. In addition, a sample index which provides a summary of the ground water samples and quality control samples collected is attached. The attached figure shows the well locations from which the ground water samples were collected.

We trust this provides you with the information you require at this time. If you have any questions or comments on scope of the ground water sampling or any of the enclosed information, please call me or Mr. Franco LaGreca of the US Navy, Northern Division.

Sincerely,

TRC Environmental Consultants, Inc.


Jim Peronto, P.E.
Project Manager

c: R. Smith/TRC
F. LaGreca/US Navy, NORTHDIV

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ATTACHMENT

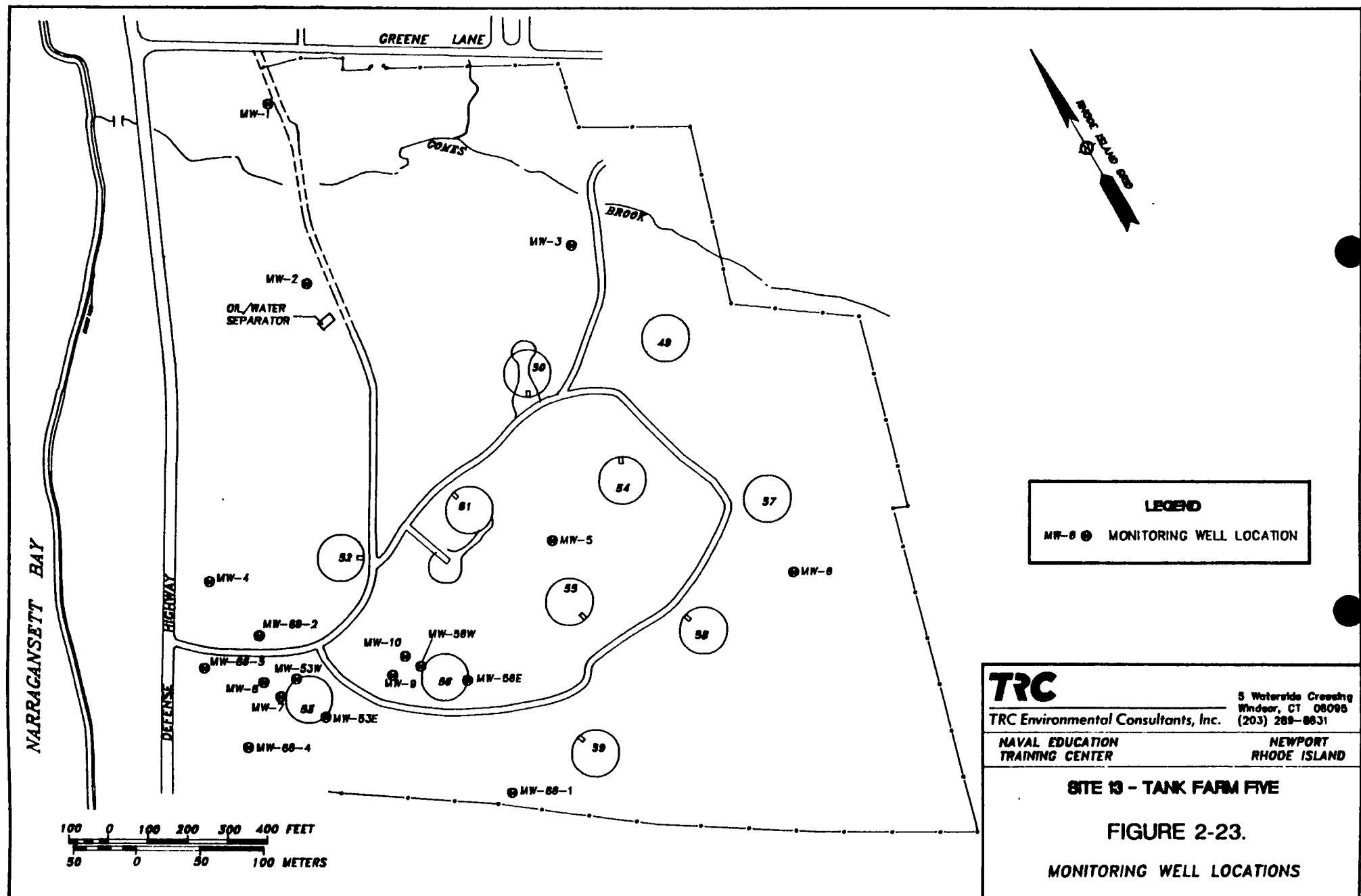


FIGURE 2-23.

MONITORING WELL LOCATIONS

TANK FARM FIVE
CONSTITUENTS DETECTED IN GROUND WATER SAMPLES

SAMPLE IDENTIFICATION.	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6
*** VOLATILE ORGANICS (PPB) ***						
VINYL CHLORIDE.....						
METHYLENE CHLORIDE.....	11 B 14	3 JB	140 B 99 JB	13 B 11	5 JB 16	4 JB
ACETONE.....						
1,1-DICHLOROETHANE.....						
1,2-DICHLOROETHENE (TOTAL)					5 J	
CHLOROFORM.....					5 J	
1,1,1-TRICHLOROETHANE ...					3 J	
TRICHLOROETHENE.....					6 J	
TETRACHLOROETHENE.....						
BENZENE.....						
TOLUENE.....						
ETHYL BENZENE.....						
XYLENE.....						
TOTAL VOLATILE ORGANICS.....	25	3	239	43	21	4
** BASE NEUTRAL / ACIDS (PPB) **						
NAPHTHALENE						
2-METHYLNAPHTHALENE						
DI-N-BUTYLPHthalATE.....	2 JB 2 JB	3 JB 3 JB	5 JB 6 JB	3 JB 4 JB	2 JB 1 JB	2 JB 2 JB
BIS(2-ETHYLHEXYL)PHthalATE.....						
TOTAL BNA'S.....	4	6	11	7	3	4
TOTAL PAH'S.....	0	0	0	0	0	0
TOTAL CARCINOGENIC PAH'S	0	0	0	0	0	0
*** PESTICIDES/PCB'S (PPB) ***						
ALPHA-BHC.....						
4,4'-DDD						
4,4'-DDT						
***** INORGANICS (PPM) TOTAL*****						
ALUMINUM	10.2	73.3	22.2	1.87	31.8	11.5
ARSENIC.....	0.039	0.036	0.026	0.029	0.071	0.013
BARIUM.....	0.049 B	0.091 B	0.044 B	0.026 B	0.138 B	0.049 B
BERYLLIUM.....		0.002 B			0.001 B	
CADMIUM.....						
CALCIUM.....	22.5	45.6	37.1	29.8	69.4	18
CHROMIUM.....	0.042	0.138	0.045	0.011	0.072	0.017
COBALT.....	0.022 B	0.056	0.041 B	0.012 B	0.164	0.024 B
COPPER.....	0.04	0.049	0.013 B	0.012 B	0.068	0.022 B
IRON.....	121	265	115	14.6	109	33.5
LEAD.....	0.039	0.057	0.028	0.003	0.028	0.014
MAGNESIUM.....	12.2	52.1	35.3	24.3	62.7	23.4
MANGANESE.....	1.47	3.31	2.83	0.154	6.8	1.3
MERCURY.....						
NICKEL.....	0.052	0.14	0.071	0.02 B	0.137	0.036 B
POTASSIUM.....	2.11 B	4.68 B	1.19 B	1.7 B	4.03 B	0.896
SELENIUM.....			0.06			
SILVER.....	0.008 B	18.9	0.88			
SODIUM.....	42.4	16.1	6.83	18	7.86	7.87
VANADIUM.....		0.012 B			0.016 B	0.013 B
ZINC.....	156	0.386	0.218	0.041	0.245	0.071

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TANK FARM FIVE
CONSTITUENTS DETECTED IN GROUND WATER SAMPLES

SAMPLE IDENTIFICATION:	MW-7	MW-8	MW-9	MW-10	MW-11	MW-12
*** VOLATILE ORGANICS (PPB) ***						
VINYL CHLORIDE.....						
METHYLENE CHLORIDE.....	2 JB	9 JB	9 JB	10 B	5 JB	10 B
ACETONE.....		5 JB				
1,1-DICHLOROETHANE	35	6 J				
1,2-DICHLOROETHENE (TOTAL).....	12	19				
CHLOROFORM.....						
1,1,1-TRICHLOROETHANE....	6 J	8 J				
TRICHLOROETHENE....	3 J					
TETRACHLOROETHENE.....						
BENZENE.....	4 J					
TOLUENE.....						
ETHYL BENZENE.....	1 J					
XYLENE.....	2 J					
TOTAL VOLATILE ORGANICS.....	65	47	9	10	23	10
** BASE NEUTRAL / ACIDS (PPB) **						
NAPHTHALENE	1 J					
2-METHYLNAPHTHALENE.....	0.6 J					
DI-N-BUTYLPHthalATE.....	2 JB	3 JB	3 JB	3 JB	2 JB	5 JB
BIS(2-ETHYLHEXYL)PHthalATE ...	3 JB	4 JB	4 JB	1 JB	1 JB	6 JB
TOTAL BNA'S	6.6	7	7	4	3	11
TOTAL PAH'S.....	0	0	0	0	0	0
TOTAL CARCINOGENIC PAH'S .. .	0	0	0	0	0	0
**** PESTICIDES/PCB'S (PPB) ****						
ALPHA-BHC.....	0.011 JP					
4,4'-DDD.....					0.011 JP	
4,4'-DDT.....						
***** INORGANICS (PPM) TOTAL*****						
ALUMINUM.....	16.4	5.59	2.67	148	15.5	2.7
ARSENIC....	0.019	0.02	0.04	0.27 B	0.055	0.035
BARIUM.....	0.055 B	0.062 B	0.056 B	0.586	0.06 B	0.048
BERYLLIUM				0.011		
CADMIUM.....				0.005 B		
CALCIUM.....	17.9	24.3	74.5	78.7	28.7	69.5
CHROMIUM.....	0.028	0.019		0.336	0.062	
COBALT.....	0.035 B	0.027 B	0.078	0.582	0.025 B	0.064
COPPER.....	0.034	0.05	0.02 B	0.144	0.058	0.019
IRON.	80.1	22.1	29.1	796	130	24.1
LEAD.....	0.04	0.03	0.036	0.167	0.053	0.066
MAGNESIUM.....	11.3	19.8	56.7	81.6	14.7	53.1
MANGANESE.....	6.6	0.535	4.62	14.4	1.7	3.62
MERCURY.....						
NICKEL.....	0.065	0.035	0.051	0.818	0.075	0.05
POTASSIUM.....	1.75 B	2.28 B	2.18 B	11.3	3.13 B	2.09 B
SELENIUM.....						
SILVER.....				0.041	0.011	
SODIUM	5.8	10.5	10.3	10	46.6	9.9
VANADIUM.....		0.063 B	0.015 B			0.014 B
ZINC.....	0.102	0.068	0.073	1.22	0.184	0.059

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TANK FARM FIVE
CONSTITUENTS DETECTED IN GROUND WATER SAMPLES

SAMPLE IDENTIFICATION:	RW-1	MW-861	MW-862	MW-864	MW-865	MW-53E
**** VOLATILE ORGANICS (PPB) ***						
VINYL CHLORIDE	5 J					
METHYLENE CHLORIDE.....	12 B	3 JB			3 JB	74 B
ACETONE.....	25 B			4 J	17 B	44 JB
1,1-DICHLOROETHANE	41					55
1,2-DICHLOROETHENE (TOTAL)	21					420
CHLOROFORM.....		8 J				
1,1,1-TRICHLOROETHANE....	36					800
TRICHLOROETHENE....	22					570
TETRACHLOROETHENE.....	2 J					220
BENZENE.....	1 J					94
TOLUENE.....						88
ETHYL BENZENE.....						230
XYLENE.....	7 J					1100
TOTAL VOLATILE ORGANICS	167	11	0	4	20	3695
** BASE NEUTRAL / ACIDS (PPB) **						
NAPHTHALENE.....	55 J					73 J
2-METHYLNAPHTHALENE.....	270					180
DI-N-BUTYLPHthalATE.....		3 JB	4 JB	4 JB	3 JB	
BIS(2-ETHYLHEXYL)PHTHALATE.....	130 B	4 JB	3 JB	44 B	6 JB	200 B
TOTAL BNA'S.....	455	7	7	48	9	453
TOTAL PAH'S.....	0	0	0	0	0	0
TOTAL CARCINOGENIC PAH'S	0	0	0	0	0	0
**** PESTICIDES/PCB'S (PPB) ****						
ALPHA-BHC				N/A		
4,4'-DDD.....						
4,4'-DDT.....						0.22 JP
***** INORGANICS (PPM) TOTAL*****						
ALUMINUM	1.2	16.9	18.9	17.4	136	9.67
ARSENIC	0.015	0.057	0.047	0.016	0.102	0.033
BARIUM.....	0.021 B	0.052 B	0.067	0.023 B	0.155 B	0.4 B
BERYLLIUM					0.003 B	
CADMIUM.....						
CALCIUM.....	35.1	16.4	25.3	6	25.4	19.9
CHROMIUM		0.03	0.066	0.03	0.278	0.016
COBALT.....	0.01 B	0.171	0.102	0.017 B	0.342	0.071
COPPER		0.063	0.076	0.034	0.332	0.073
IRON.....	60.2	72.2	94.6	44.7	350	50.3
LEAD.....	0.002 B	0.025	0.053	0.017	124	0.021
MAGNESIUM.....	15.3	16.7	27.7	7	45.1	12.9
MANGANESE	7.65	3.1	4.38	0.263	1.79	6.54
MERCURY.....			0.00014 B			0.001
NICKEL.....		0.116	0.115	0.027 B	0.372	0.052
POTASSIUM.....	2.28 B	1.6 B	2.86 B	1.33 B	4.15 B	1.96 B
SELENIUM					0.024	
SILVER.....						
SODIUM	11.6	9.23	15.1	8.7	8.11	10.6
VANADIUM.....				0.012 B	0.039 B	0.054 B
ZINC.....	0.06	0.19	0.255	0.084	0.873	0.107

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DELET

TANK FARM FIVE
CONSTITUENTS DETECTED IN GROUND WATER SAMPLES

SAMPLE IDENTIFICATION.	FB-506	FB-507	TB1-506	TB2-506	TB3-506	TB4-506
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*** VOLATILE ORGANICS (PPB) ***

VINYL CHLORIDE.....						
METHYLENE CHLORIDE.....	8 JB	10 B	9 JB	4 B	9 JB	10 B
ACETONE.....		9 JB	20 B		8 J	25
1,1-DICHLOROETHANE.....						
1,2-DICHLOROETHENE (TOTAL).....						
CHLOROFORM.....						
1,1,1-TRICHLOROETHANE....						
TRICHLOROETHENE....						
TETRACHLOROETHENE.....						
BENZENE.....						
TOLUENE						
ETHYL BENZENE.....						
XYLENE.....						
TOTAL VOLATILE ORGANICS.....	8	19	29	4	17	35

** BASE NEUTRAL / ACIDS (PPB) **

NAPHTHALENE.....			
2-METHYLNAPHTHALENE.....			
DI-N-BUTYLPHthalate.....	2 JB	3 JB	
BIS(2-ETHYLHEXYL)PHTHALATE.....	3 JB	10 JB	
TOTAL BNA'S.	5	13	
TOTAL PAH'S.....	0	0	
TOTAL CARCINOGENIC PAH'S.....	0	0	

*** PESTICIDES/PCB'S (PPB) ***

ALPHA-BHC.....	
4,4'-DDD	
4,4'-DDT.....	

***** INORGANICS (PPM) TOTAL*****

ALUMINUM.....	"
ARSENIC	
BARIUM.....	
BERYLLIUM.....	
CADMIUM.....	
CALCIUM	0.147 B
CHROMIUM.....	0.055 B
COBALT	
COPPER.....	
IRON. .	0.035 B
LEAD.....	
MAGNESIUM.....	
MANGANESE.....	
MERCURY.....	
NICKEL.....	
POTASSIUM.....	
SELENIUM	
SILVER.....	
SODIUM	0.058 B
VANADIUM.....	0.175 B
ZINC.....	0.009 B

DELET

SAMPLE IDENTIFICATION:

TB1-507 TB2-507 TB3-507

**** VOLATILE ORGANICS (PPB) ***

VINYL CHLORIDE.....			
METHYLENE CHLORIDE.....	2 JB	14 B	4 JB
ACETONE.....	7 JB	27 B	11 B
1,1-DICHLOROETHANE			
1,2-DICHLOROETHENE (TOTAL).....			
CHLOROFORM.....			
1,1,1-TRICHLOROETHANE.....			
TRICHLOROETHENE....			
TETRACHLOROETHENE.....			
BENZENE.....			
TOLUENE.....			
ETHYL BENZENE.....			
XYLENE.....			
TOTAL VOLATILE ORGANICS	9	41	15

** BASE NEUTRAL / ACIDS (PPB) **

NAPHTHALENE.....			
2-METHYLNAPHTHALENE			
DI-N-BUTYLPHthalate.....			
BIS(2-ETHYLHEXYL)PHthalate.....			
TOTAL BNA'S.....			
TOTAL PAH'S			
TOTAL CARCINOGENIC PAH'S .. .			

**** PESTICIDES/PCB'S (PPB) ****

ALPHA-BHC.....			
4,4'-DDD.....			
4,4'-DDT.....			

***** INORGANICS (PPM) TOTAL*****

ALUMINUM.....			
ARSENIC			
BARIUM			
BERYLLIUM.....			
CADMIUM			
CALCIUM			
CHROMIUM.....			
COBALT.....			
COPPER			
IRON.....			
LEAD.....			
MAGNESIUM.....			
MANGANESE.....			
MERCURY			
NICKEL			
POTASSIUM.....			
SELENIUM.....			
SILVER			
SODIUM.....			
VANADIUM.....			
ZINC.....			

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U S NAVY, NETC, NEWPORT, RI
 SITE 13 - TANK FARM FIVE
 GROUND WATER SAMPLING MAY 1992
 SAMPLE INDEX
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SAMPLE NUMBER	DATE	TIME	MATRIX	TCL VOA	TCL BNA	TCL PEST/PCB	TAL METALS	DISSOLVED METALS	TSS	BOD	COD	SAMPLER	NOTES	WESTON BATCH NUMBER
TF5-MW1-506	05/06/92	1445	WATER	X	X	X	X	X	X	X	X	TM/JB		9205-L235
TF5-MW2-506	05/06/92	1340	WATER	X	X	X	X	X	X	X	X	TM/JB		9205-L235
TF5-MW3-506	05/06/92	1400	WATER	X	X	X	X	X	X	X	X	TM/JB		9205-L235
TF5-MW4-506	05/06/92	1240	WATER	X	X	X	X	X	X	X	X	TM/JB		9205-L235
TF5-MW5-506	05/06/92	1200	WATER	X	X	X	X	X	X	X	X	TM/JB		9205-L235
TF5-MW6-506	05/06/92	1020	WATER	X	X	X	X	X	X	X	X	TM/JB		9205-L235
TF5-MW7-506	05/06/92	1610	WATER	X	X	X	X	X	X	X	X	FB/ZZ		9205-L235
TF5-MW8-507	05/07/92	045	WATER	X	X	X	X	X	X	X	X	FB/JB		9205-L252
TF5-MW9-507	05/07/92	830	WATER	X	X	X	X	X	X	X	X	FB/JB		9205-L252
TF5-MW10-507	05/07/92	850	WATER	X	X	X	X	X	X	X	X	FB/JB		9205-L252
TF5-MW11-508	05/06/92	1455	WATER	X	X	X	X	X	X	X	X	TM/JB	Duplicate of MW-1	9205-L252
TF5-MW12-507	05/07/92	815	WATER	X	X	X	X	X	X	X	X	FB/JB	Duplicate of MW-9	9205-L252
TF5-RW1-507	05/07/92	1100	WATER	X	X	X	X	X	X	X	X	TM/JB		9205-L252
TF5-MW881-506	05/06/92	1110	WATER	X	X	X	X	X	X	X	X	FB/ZZ		9205-L235
TF5-MW882-507	05/07/92	1215	WATER	X	X		X	X				FB/ZZ		9205-L252
TF5-MW884-508	05/06/92	1410	WATER	X	X	X	X	X	X	X	X	FB/ZZ		9205-L235
TF5-MW885-508	05/06/92	1515	WATER	X	X	X	X	X	X	X	X	FB/ZZ		9205-L235
TF5-MW53E-507	05/07/92	1130	WATER	X	X	X	X	X				TM/JB		9205-L252
TF5-MW53W													Not sampled due to lack of water	
TF5-MW56E													Not sampled due to lack of water	
TF5-MW56W													Not sampled due to lack of water	
TF5-FB-506	05/06/92	1520	WATER	X	X	X	X	X	X	X	X	TM/JB	Field Blank	9205-L235
TF5-FB-507	05/07/92	1520	WATER	X	X	X	X	X	X	X	X	TM/JB	Field Blank	9205-L252
TF5-TB1-506	05/06/92	1545	WATER	X								TM/FB	Trip Blank	9205-L235
TF5-TB2-506	05/06/92	1655	WATER	X								TM/FB	Trip Blank	9205-L235
TF5-TB3-506	05/06/92	1805	WATER	X								TM/FB	Trip Blank	9205-L235
TF5-TB4-506	05/06/92	1615	WATER	X								TM/FB	Trip Blank	9205-L235
TF5-TB1-507	05/07/92	1800	WATER	X								TM/FB	Trip Blank	9205-L252
TF5-TB2-507	05/07/92	1610	WATER	X								TM/FB	Trip Blank	9205-L252
TF5-TB3-507	05/07/92	1615	WATER	X								TM/FB	Trip Blank	9205-L252

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